



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Hatim Allawi, *et al.*
Serial No.: 09/864,636
Filed: 05/24/2001
Entitled: DETECTION OF RNA

Group No.: 1652
Examiner: C. L. Patterson

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

<p align="center">CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)</p> <p>I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p>Dated: <u>June 23, 2004</u></p> <p align="right">By: <u>Susan M. McClintock</u> Susan M. McClintock</p>

Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Patent No. 5,541,311 on 7/30/96 to Dahlberg *et al.*
- U.S. Patent No. 5,614,402 on 3/25/97 to Dahlberg *et al.*
- U.S. Patent No. 5,795,763 on 8/18/98 to Dahlberg *et al.*
- U.S. Patent No. 5,846,717 on 12/8/98 to Brow
- U.S. Patent No. 5,985,557 on 11/16/99 to Prudent *et al.*
- U.S. Patent No. 5,994,069 on 11/30/99 to Hall *et al.*
- U.S. Patent No. 6,001,567 on 12/24/99 to Brow *et al.*
- U.S. Patent No. 5,874,283 on 2/23/99 to Harrington *et al.*
- U.S. Patent No. 5,843,669 on 12/1/98 to Kaiser *et al.*

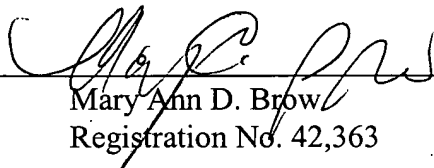
- U.S. Patent No. 5,466,591 on 11/14/95 to Abramson *et al.*
- U.S. Patent No. 5,795,762 on 8/18/98 to Abramson *et al.*
- U.S. Patent No. 5,244,797 on 9/14/93 to Kotewicz *et al.*
- U.S. Patent No. 5,268,289 on 12/7/93 to Dahl *et al.*
- U.S. Patent No. 5,459,055 on 10/17/95 to Jendrisak *et al.*
- U.S. Patent No. 5,500,370 on 3/19/96 to Jendrisak *et al.*
- U.S. Patent No. 5,837,458 on 11/17/98 to Minshull *et al.*
- U.S. Patent No. 6,090,606 on 7/18/00 to Kaiser *et al.*
- WO 97/27214
- WO 98/42873
- WO 00/18906
- WO 99/65927
- WO 98/31837
- WO 98/27230
- Kaiser *et al.*, J. Biol. Chem., 274:21387 [1999]
- Lyamichev *et al.*, Nat. Biotechnol., 17:292 [1999]
- Lyamichev *et al.*, Science 260:778 [1993]
- Kwiatkowski *et al.*, Molec. Diagn., 4:353 [1999]
- Xu *et al.*, J. Biol. Chem., published online as 10.1074/jbc.M909135199 at www.jbc.org/pips/pips.2.shtml, May 9, 2000
- Doherty *et al.*, Nucl. Acid. Res., 24:2488 [1996]
- Marmur and Lane, *Proc. Natl. Acad. Sci. USA* 46:453 [1960]
- Doty *et al.*, *Proc. Natl. Acad. Sci. USA* 46:461 [1960]
- Nielsen *et al.*, Anticancer Drug Des. 8:53 [1993]
- Mullis and Faloona, Methods in Enzymology, 155:335 [1987]
- Saiki *et al.*, Science 230:1350 [1985]
- Eom *et al.*, Nature 382:278 [1996]
- Minnick *et al.*, J. Biol. Chem., 271:24954 [1996]
- Polesky *et al.*, J. Biol. Chem., 267:8417 [1992]
- Kiefer *et al.*, Nature 391:304 [1998]

- Ollis *et al.*, Nature 313:762 [1985]
- Kim *et al.*, Nature 376:612 [1995]
- Korolev *et al.*, Proc. Natl. Acad. Sci., 92:9264 [1995]
- Doublié *et al.*, Nature 391:251 [1998]
- Pelletier *et al.*, Science 264:1891 [1994]
- Ceska *et al.*, Nature 382:90 [1996]
- Hwang *et al.*, Nat. Struct. Biol., 5:707 [1998]
- Del Rio *et al.*, Biotechniques 17:1132 [1994]
- M.J.R. Stark, *Gene* 5:255 [1987]
- Studier and Moffatt, J. Mol. Biol., 189:113 [1986]
- Sambrook *et al.* *Molecular Cloning*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, pp. 1.63-1.69 [1989]
- Engelke *et al.*, Anal. Biochem., 191:396 [1990]
- Myers and Gelfand, Biochemistry 30:7661 [1991]
- Johnson *et al.*, Science 269:238 [1995]
- Higuchi, in PCR Technology, H. A. Erlich, ed., Stockton Press, New York. pp61-70 [1989]
- Brautigam *et al.*, Curr. Opin Struc Biol. 8(2):54-63 (1998)
- Urs *et al.*, Acta Crystallogr D. Biol. Crystallogr 55(Pt 12):1971-7 (1999)
- Hall *et al.*, PNAS 97:8272-8277 (2000)
- Xu *et al.*, J Biol. Chem. 275:20949-20955 (2000)
- Van Deuren *et al.*, J. Int. Fed. Clin. Chem., 5:216 [1993]
- Van Deuren *et al.*, J. Inf. Dis., 169:157 [1994]
- Perenboom *et al.*, Eur. J. Clin. Invest., 26:159 [1996]
- Guidotti *et al.*, Immunity 4:25 [1996]
- Grant *et al.*, Transplantation 62:910 [1996]
- Mellors *et al.*, Science 272:1167 [1996]
- Saag *et al.*, Nature Medicine 2:625 [1996]
- Lyamichev *et al.*, Prot. Natl. Acad. Sci., 96:6143 [1999]
- Li *et al.*, Protein Sci., 7:1116 [1998]

- Saiki *et al.*, Science 230:1350 [1985]
- Joyce and Steitz, Trends in Biochemical Science 12:288 [1987]
- Breese *et al.*, Science 260:352 [1993]
- Polesky *et al.*, J. Biol. Chem., 265:14579 [1990]
- Pandey *et al.*, Eur. J. Biochem., 214:59 [1993]
- Holm and Sander, J. Mol. Biol., 233:123 [1993]
- Holm and Sander, Science 273:595 [1996]
- Li *et al.*, EMBO J., 17:7514 [1998]
- May *et al.*, Proc. Natl. Acad. Sci., 83:8957 [1986]

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: June 23, 2004


Mary Ann D. Brown
Registration No. 42,363

MEDLEN & CARROLL, LLP
101 Howard Street, Suite 350
San Francisco, California 94105
608/218-6900

FORM PTO-1449
(Modified)

JUN 25 2004

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: FORS-04944

Serial No.: 09/864,636

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Hatim Allawi, *et al.*

(37 CFR § 1.98(b))

Filing Date: 05/24/2001

Group Art Unit: 1652

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	1	5,541,311	7/30/96	Dahlberg <i>et al.</i>	536	23.7	6/4/93
	2	5,614,402	3/25/97	Dahlberg <i>et al.</i>	435	199	6/6/94
	3	5,795,763	8/18/98	Dahlberg <i>et al.</i>	435	194	6/6/95
	4	5,846,717	12/8/98	Brow	435	6	1/24/96
	5	5,985,557	11/16/99	Prudent <i>et al.</i>	435	6	11/26/96
	6	5,994,069	11/30/99	Hall <i>et al.</i>	435	6	3/24/97
	7	6,001,567	12/14/99	Brow <i>et al.</i>	435	6	7/12/96
	8	5,874,283	2/23/99	Harrington <i>et al.</i>	435	252.3	5/30/95
	9	5,843,669	12/1/98	Kaiser <i>et al.</i>	435	6	11/29/96
	10	5,466,591	11/14/95	Abramson <i>et al.</i>	435	194	2/23/93
	11	5,795,762	8/18/98	Abramson <i>et al.</i>	435	194	6/2/95
	12	5,244,797	9/14/93	Kotewicz <i>et al.</i>	435	194	3/18/91
	13	5,268,289	12/7/93	Dahl <i>et al.</i>	435	199	12/27/91
	14	5,459,055	10/17/95	Jendrisak <i>et al.</i>	435	199	12/6/93
	15	5,500,370	3/19/96	Jendrisak <i>et al.</i>	435	320.1	6/5/95
	16	5,837,458	11/17/98	Minshull <i>et al.</i>	435	6	5/20/96
	17	6,090,606	7/18/00	Kaiser <i>et al.</i>	435	199	12/2/96

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	18	WO 97/27214						
	19	WO 98/42873						
	20	WO 00/18906						
	21	WO 99/65927						
	22	WO 98/31837						
	23	WO 98/27230						

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

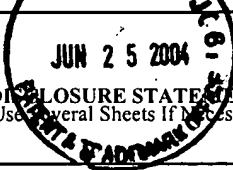
	24	Kaiser <i>et al.</i> , J. Biol. Chem., 274:21387 [1999]
	25	Lyamichev <i>et al.</i> , Nat. Biotechnol., 17:292 [1999]

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: FORS-04944	Serial No.: 09/864,636
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Hatim Allawi, <i>et al.</i>	
(37 CFR § 1.98(b))				Filing Date: 05/24/2001	Group Art Unit: 1652
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
26	Lyamichev <i>et al.</i> , Science 260:778 [1993]				
27	Kwiatkowski <i>et al.</i> , Molec. Diagn., 4:353 [1999]				
28	Xu <i>et al.</i> , J. Biol. Chem., published online as 10.1074/jbc.M909135199 at www.jbc.org/pips/pips.2.shtml, May 9, 2000				
29	Doherty <i>et al.</i> , Nucl. Acid. Res., 24:2488 [1996]				
30	Marmur and Lane, <i>Proc. Natl. Acad. Sci. USA</i> 46:453 [1960]				
31	Doty <i>et al.</i> , <i>Proc. Natl. Acad. Sci. USA</i> 46:461 [1960]				
32	Nielsen <i>et al.</i> , Anticancer Drug Des. 8:53 [1993]				
33	Mullis and Faloona, Methods in Enzymology, 155:335 [1987]				
34	Saiki <i>et al.</i> , Science 230:1350 [1985]				
35	Eom <i>et al.</i> , Nature 382:278 [1996]				
36	Minnick <i>et al.</i> , J. Biol. Chem., 271:24954 [1996]				
37	Polesky <i>et al.</i> , J. Biol. Chem., 267:8417 [1992]				
38	Kiefer <i>et al.</i> , Nature 391:304 [1998]				
39	Ollis <i>et al.</i> , Nature 313:762 [1985]				
40	Kim <i>et al.</i> , Nature 376:612 [1995]				
41	Korolev <i>et al.</i> , <i>Proc. Natl. Acad. Sci.</i> , 92:9264 [1995]				
42	Doubie <i>et al.</i> , Nature 391:251 [1998]				
43	Pelletier <i>et al.</i> , Science 264:1891 [1994]				
44	Ceska <i>et al.</i> , Nature 382:90 [1996]				
45	Hwang <i>et al.</i> , Nat. Struct. Biol., 5:707 [1998]				
46	Del Rio <i>et al.</i> , Biotechniques 17:1132 [1994]				
47	M.J.R. Stark, <i>Gene</i> 5:255 [1987]				
48	Studier and Moffatt, J. Mol. Biol., 189:113 [1986]				
49	Sambrook <i>et al.</i> <i>Molecular Cloning</i> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, pp. 1.63-1.69 [1989]				
50	Engelke <i>et al.</i> , Anal. Biochem., 191:396 [1990]				
51	Myers and Gelfand, Biochemistry 30:7661 [1991]				
52	Johnson <i>et al.</i> , Science 269:238 [1995]				
53	Higuchi, in PCR Technology, H. A. Erlich, ed., Stockton Press, New York. pp61-70 [1989]				
54	Brautigam <i>et al.</i> , Curr. Opin Struc Biol. 8(2):54-63 (1998)				
55	Urs <i>et al.</i> , Acta Crystallogr D. Biol. Crystallogr 55(Pt 12):1971-7 (1999)				
56	Hall <i>et al.</i> , PNAS 97:8272-8277 (2000)				
57	Xu <i>et al.</i> , J Biol. Chem. 275:20949-20955 (2000)				
Examiner:			Date Considered:		
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: FORS-04944

Serial No.: 09/864,636

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Separate Sheets If Necessary)Applicant: Hatim Allawi, *et al.*

(37 CFR § 1.98(b))

Filing Date: 05/24/2001

Group Art Unit: 1652

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

- | | |
|----|---|
| 58 | Van Deuren <i>et al.</i> , J. Int. Fed. Clin. Chem., 5:216 [1993] |
| 59 | Van Deuren <i>et al.</i> , J. Inf. Dis., 169:157 [1994] |
| 60 | Perenboom <i>et al.</i> , Eur. J. Clin. Invest., 26:159 [1996] |
| 61 | Guidotti <i>et al.</i> , Immunity 4:25 [1996] |
| 62 | Grant <i>et al.</i> , Transplantation 62:910 [1996] |
| 63 | Mellors <i>et al.</i> , Science 272:1167 [1996] |
| 64 | Saag <i>et al.</i> , Nature Medicine 2:625 [1996] |
| 65 | Lyamichev <i>et al.</i> , Prot. Natl. Acad. Sci., 96:6143 [1999] |
| 66 | Li <i>et al.</i> , Protein Sci., 7:1116 [1998] |
| 67 | Saiki <i>et al.</i> , Science 230:1350 [1985] |
| 68 | Joyce and Steitz, Trends in Biochemical Science 12:288 [1987] |
| 69 | Breese <i>et al.</i> , Science 260:352 [1993] |
| 70 | Polesky <i>et al.</i> , J. Biol. Chem., 265:14579 [1990] |
| 71 | Pandey <i>et al.</i> , Eur. J. Biochem., 214:59 [1993] |
| 72 | Holm and Sander, J. Mol. Biol., 233:123 [1993] |
| 73 | Holm and Sander, Science 273:595 [1996] |
| 74 | Li <i>et al.</i> , EMBO J., 17:7514 [1998] |
| 75 | May <i>et al.</i> , Proc. Natl. Acad. Sci., 83:8957 [1986] |
| | |
| | |
| | |
| | |
| | |

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.